Appl. No. 10/748,734 Amdt. Dated February 2, 2007 Attorney Docket No. 88519.0001 Customer No.: 26021

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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- 1-3. (Canceled)
- 4. (Previously presented) A transparent electrode comprising:
- a ZnO layer; and
- an Mg-doped ZnO film formed on the ZnO layer,
- wherein the ZnO layer is formed on a semiconductor layer, and
- wherein the semiconductor layer comprises a GaN system semiconductor layer.
 - 5. (Previously presented) A transparent electrode comprising:
 - a ZnO layer; and
 - an Mg-doped ZnO film formed on the ZnO layer,
 - wherein the ZnO layer is formed on a semiconductor layer, and
- wherein the semiconductor layer comprises an n-type GaN system semiconductor layer formed on a substrate, an emission layer formed on the n-type GaN system semiconductor layer, and a p-type GaN system semiconductor layer formed on the emission layer.
- 6. (Previously presented) The transparent electrode of Claim 4, wherein the Mg-doped ZnO film overlies an upper surface of the ZnO layer.
 - 7. (Canceled)

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- 8. (Previously presented) The transparent electrode of Claim 4, wherein a first metal pattern is formed on the Mg-doped ZnO film.
- 9. (Previously presented) The transparent electrode of Claim 4, wherein a second metal pattern is formed on the semiconductor layer.
- 10. (Previously presented) The transparent electrode of Claim 4, wherein the Mg-doped ZnO film improves acid resistance of the transparent electrode.
- 11. (Previously presented) The transparent electrode of Claim 4, wherein the semiconductor layer is formed on a substrate.
 - 12. (Canceled)
 - 13. (Previously presented) A light emitting device comprising:
 - a semiconductor layer formed on a substrate;
 - a ZnO transparent electrode formed on the semiconductor layer; and
 - an Mg-doped ZnO film formed on the ZnO transparent electrode,
- wherein the semiconductor layer comprises a GaN system semiconductor layer.
 - 14. (Previously presented) A light emitting device comprising:
 - a semiconductor layer formed on a substrate;
 - a ZnO transparent electrode formed on the semiconductor layer; and
 - an Mg-doped ZnO film formed on the ZnO transparent electrode,
- wherein the semiconductor layer comprises an n-type GaN system semiconductor layer formed on the substrate, an emission layer formed on the n-type GaN system semiconductor layer, and a p-type GaN system semiconductor layer formed on the emission layer.

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- 15. (Previously presented) The light emitting device of Claim 13, wherein the Mg-doped ZnO film overlies an upper surface of the ZnO transparent electrode formed on the semiconductor layer.
 - 16. (Canceled)
- 17. (Previously presented) The light emitting device of Claim 13, wherein a first metal pattern is formed on the Mg-doped ZnO film.
- 18. (Previously presented) The light emitting device of Claim 13, wherein a second metal pattern is formed on the semiconductor layer.
- 19. (Previously presented) The light emitting device of Claim 13, wherein the Mg-doped ZnO film improves acid resistance of the light emitting device.

20-25. (Canceled)